

5. Dec. 2007 8:07

PEARL COHEN ZEDEK LATZER

DEC 05 2007

No. 4198 P. 5/35

PTO/SB/08a (07-05)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/688,867
				Filing Date	October 17, 2003
				First Named Inventor	STELLACCI, Francesco
				Art Unit	
				Examiner Name	Not Yet Known
Sheet	1	of	5	Attorney Docket Number	
P-8698-US					

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (known)			
A	US-6309580		10-30-01	Chou -	
B	US-6114099		09-05-00	Liu	
C	US-6020047		02-01-00	Everhart	
D	US-5772905		06-30-98	Chou	
E	US-5512131		04-30-96	Kumar	
F	US-5079600		01-07-92	Schnur	
G	US-2003/0080472		05-01-03	Chou	
H	US-2003/0080471		05-01-03	Chou	
I	US-2003/0068446		04-10-03	Mirkin	
J	US-2003/0034329		02-20-03	Chou	
K	US-2002/0167117		11-14-02	Chou	
L	US-6444321		09-03-02	Arnebrandt	
M	US-2002/0164604		11-07-02	Abbott	
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FOREIGN PATENT DOCUMENTS

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PAGE 5/35 * RCVD AT 12/5/2007 1:13:56 AM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/36 * DNI5:2738300 * CSID:6464175511 * DURATION (mm:ss):62-02

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Sheet	2	of	5	Attorney Docket Number	P-8698-US

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	N	Amro et al., "Patterning Surfaces using tip-directed displacement and self-assembly", Langmuir, 16: 3006-3009, 2000	<input type="checkbox"/>
	O	Andre, et al., "Quantum Chemistry and Molecular Engineering of Oligomeric and Polymeric Materials for Optoelectronics", Chem. Rev. 91: 843-865, 1991	<input type="checkbox"/>
	P	Austin, et al., "Fabrication of nanocontacts for molecular devices using nanoimprint lithography", J. Vac. Sci. Technol/ 20(2):665-667, 2002.	<input type="checkbox"/>
	Q	Bashir, et al., "DNA-Mediated artificial nanobiostructures: State of the art and future directions", Superlattices and microstructures, 29(1): 1-16, 2001.	<input type="checkbox"/>
	R	Bruckbauer, et al., "Writing with DNA and protein using a nonpipet for controlled delivery", J. Am. Chem. Soc. 124:8810-8811, 2002.	<input type="checkbox"/>
	S	Chappert, et al., "Planar patterned magnetic media obtained by ion irradiation" Science, 280: 1919-1922, 1998.	<input type="checkbox"/>
	T	Chen et al., "Nanofabrication: Conventional and nonconventional methods", Electrophoresis, 22: 187-207, 2001.	<input type="checkbox"/>
	U	Chou et al., "Ultrafast and direct imprint of nanostructures in silicon", Nature, 417:835-837, 2002.	<input type="checkbox"/>
	V	Demers et al., "Orthogonal assembly of nanoparticle building blocks and dip-pen nanolithographically generated templates of DNA", Angew. Chem. Int. Ed. 40:3071-3073, 2001.	<input type="checkbox"/>
	W	Demers et al., "Direct patterning of modified oligonucleotides on metals and insulators by dip-pen nanolithography", Science, 296: 1836-1838, 2002.	<input type="checkbox"/>
	X	Demers et al., "Combinatorial templates generated by dip-pen nanolithography for the formation of two-dimensional particle arrays", Angew. Chem. Int. Ed. 40(16): 3069-3071, 2001.	<input type="checkbox"/>

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(use as many sheets as necessary)				Examiner Name	Not Yet Known
Sheet	3	of	5	Attorney Docket Number	P-8698-US

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	Y	Folkers et al., "Phase behaviour of two-component self-assembled monolayers of alkanethiolates on gold", J. Phys. Chem. 98:563-571, 1994.	<input type="checkbox"/>
	Z	Fulerer et al., Patterning mesoscale gradient structures with self-assembled monolayers and scanning tunneling microscopy based replacement lithography", Adv. Mater. 14(2): 154-157, 2002.	<input type="checkbox"/>
	a	Gonsalves et al., "Organic-inorganic nanocomposites: unique resists for nanolithography", Adv. Mater. 13(10): 703-714, 2001.	<input type="checkbox"/>
	b	Gorman et al., "Chemically well-defined lithography using self-assembled monolayers and scanning tunneling microscopy in nonpolar organothiol solutions", Langmuir, 16: 6312-6316, 2000.	<input type="checkbox"/>
	c	Hanvey et al., "antisense and antigene properties of peptide nucleic acids", Science, 258: 1481-1485, 1992.	<input type="checkbox"/>
	d	Heller et al., "DNA microarray technology: devices, systems and applications", Annu. Rev. Biomed. Eng. 4: 129-153, 2002.	<input type="checkbox"/>
	e	Hoepenner et al., "Metal nanoparticles, nanowires and contact electrodes self-assembled on patterned monolayer templates- a bottom-up chemical approach", Adv. Mater. 14: 1036-1041, 2002.	<input type="checkbox"/>
	f	Hong et al., "Multiple ink nanolithography: toward a multiple=pen nano=plotter", Science, 286: 523-525, 1999.	<input type="checkbox"/>
	g	Joachim et al., "Is there a minimum size and a maximum speed for a nanoscale amplifier?", Annals. NYAS Online, 852: 243-256, 1998.	<input type="checkbox"/>
	h	Johnson et al., "Ordered mesoporous polymers of tunable pore size from colloidal silica templates", Science, 283: 963-965, 1999.	<input type="checkbox"/>
	i	Lee et al., "Protein nanoarrays generated by dip-pen nanolithography", Science, 295:1702-1705, 2002.	<input type="checkbox"/>

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	j	Liu et al., "Production of nanostructures of DNA on surfaces", NANO Letters, 2(8): 863-867, 2002.			<input type="checkbox"/>
	k	Liu et al., "Three-dimensional nanostructure construction via nanografting: positive and negative pattern transfer", NANO Letters, 2(9): 937-940, 2002.			<input type="checkbox"/>
	l	Liu et al., "Nanofabrication of self-assembled monolayers using scanning probe lithography", Acc. Chem. Res. 33: 457-466, 2000.			<input type="checkbox"/>
	m	Maoz et al., "Constructive nanolithography, inert monolayers as patternable templates for in-situ nanofabrication of metal-semiconductor-organic surface structures – a generic approach", Adv. Mater. 12(10): 725-731, 2000.			<input type="checkbox"/>
	n	Maynor et al., "Au "Ink" for AFM "dip-pen" nanolithography", Langmuir, 17: 2575-2578, 2001.			<input type="checkbox"/>
	o	Melosh et al., "Ultrahigh-density nanowire lattices and circuits", Science, 300: 112-115, 2003.			<input type="checkbox"/>
	p	Nyffenegger et al., "Nanometer-scale surface modification using the scanning probe microscope: progress since 1991" Chem. Rev. 97: 1195-1230, 1997.			<input type="checkbox"/>
	q	Park et al., "Array-based electrical detection of DNA with nanoparticles probes", Science, 295: 1503-1506, 2002.			<input type="checkbox"/>
	r	Piner et al., "Dip-pen nanolithography", Science, 283: 661-663, 1999.			<input type="checkbox"/>
	s	Schwartz et al., "Molecular transport from an atomic force microscope tip: a comparative study of dip-pen nanolithography", Langmuir, 18: 4041-4046, 2002.			<input type="checkbox"/>
	t	Stutzmann et al., "Self-aligned, vertical-channel, polymer field-effect transistors", Science, 299: 1881-1884, 2003.			<input type="checkbox"/>

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	u	Sun et al., "nanoscale molecular patterns fabricated by using scanning near-field optical lithography", J. Am. Chem. Soc., 124 (11): 2414-2415, 2002.	<input type="checkbox"/>
	v	Taton et al., "The DNA-mediated formation of supramolecular mono and multilayered nanoparticle structures", J. Am. Chem. Soc. 122: 6305-6306, 2000.	<input type="checkbox"/>
	w	Taton et al., "Scanometric DNA array detection with nanoparticle probes", Science, 289: 1757-1760, 2000.	<input type="checkbox"/>
	x	Taton et al., "Two-color labeling of oligonucleotide arrays via size-selective scattering of nanoparticle probes", J. Am. Chem. Soc. 123: 5164-5165, 2001.	<input type="checkbox"/>
	y	Watterson et al., "Practical physical aspects of interfacial nucleic acid oligomer hybridization for biosensor design", Analytica Chimica Acta, 469: 115-127, 2002.	<input type="checkbox"/>
	z	Xia et al., "Unconventional methods for fabricating and patterning nanostructures", Chem. Rev. 99: 1823-1848, 1999.	<input type="checkbox"/>
	AA	Xia et al., "Soft lithography", Annu. Rev. Mater. Sci., 28: 153-184, 1998.	<input type="checkbox"/>
	AB	Mirkin et al., "A DNA-based method for rationally assembling nanoparticles into macroscopic materials", Nature, Vol. 382, 15-AUG-1996, pages 607-609.	<input type="checkbox"/>
	AC	Gooding et al., "Self-assembled monolayers into the 21 st century: Recent advances and application", Electroanalysis 2003, vol. 15, No. 2, pages 81-96.	<input type="checkbox"/>
	AD	Falconnet et al., "A novel approach to produce protein nanopatterns by combining nanoimprint lithography and molecular self-assembly", Nano Letters 2004, Vol. 4, No. 10, pages 1909-1914.	<input type="checkbox"/>
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